

## Title (en)

SUPEROXIDE DISMUTASE DERIVATIVES A METHOD OF PRODUCING THE SAME AND MEDICINAL USE OF THE SAME

## Publication

**EP 0292964 A3 19900613 (EN)**

## Application

**EP 88108420 A 19880526**

## Priority

JP 13456387 A 19870528

## Abstract (en)

[origin: EP0292964A2] The invention provides a superoxide dismutase derivative of the general formula [SOD] [Z]<sub>n</sub> wherein [SOD] represents a superoxide dismutase having 1 to 22 or 24 groups each derived from an amino group by removal of one hydrogen atom in lieu of amino groups; [Z] represents a monovalent copolymer group, constituting units of which are a group of the formula <CHEM> wherein R<1>, R<2>, R<3> and R<4> each represents a hydrogen atom or a residue derived by removal of a hydroxyl group from an alkanol of 1 to 8 carbon atoms, an ethylene glycol monoalkyl ether containing an alkyl moiety of 1 to 4 carbon atoms or a glycerin dialkyl ether containing alkyl moieties of 1 to 4 carbon atoms, provided that either R<1> or R<2> and either R<3> or R<4> each represents a hydrogen atom, and a residue derived from the group of the above-mentioned formula by removal of OR<1>, OR<2>, OR<3> or OR<4> group from one of its COOR<1>, COOR<2>, COOR<3> and COOR<4> groups (where the bond on the carbon atom of the carbonyl group is attached to [SOD]), said monovalent copolymer group having an average molecular weight of 500 to 200,000; and n represents an integer of 1 to 22 or 24 corresponding to the number of said groups each derived from an amino group by removal of one hydrogen atom in said [SOD], or a pharmaceutically acceptable salt thereof. There also is provided a method for producing the above derivative and salt. The invention is further directed to medicinal uses and pharmaceutical compositions for oral administration.

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## Citation (search report)

- [AP] EP 0246569 A2 19871125 - INOUE MASAYASU [JP], et al
- [A] GB 2158078 A 19851106 - ERBA FARMITALIA, et al
- [A] EP 0200467 A2 19861105 - AJINOMOTO KK [JP]

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